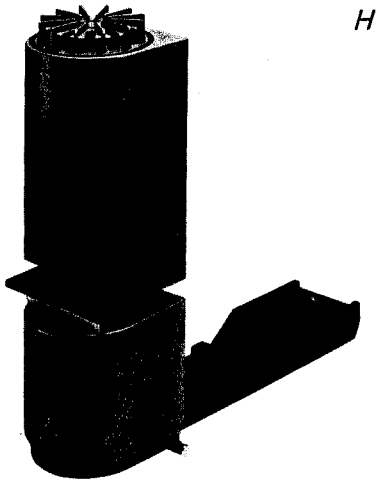
HVT-3000CE/UB

2274

SERVICE MANUAL

HVT-3000CE.....*AEP Model*
HVT-3000UB.....*UK Model*



June, 1982

SPECIFICATIONS

Connected Equipment:	Sony HVC-4000P video camera
Power Requirements:	220–240V ac, 50/60Hz
Power Consumption:	60W (when a 60W bulb is used)
Dimensions:	Approx. 102(w) x 337(h) x 350(d) mm $4^{1}/_{8}$ (w) x $13^{3}/_{8}$ (h) x $13^{7}/_{8}$ (d) inches
Net Weight:	Approx. 2kg (4 lb 7 oz)
Accessories Supplied:	N1 and N2 filters for negative film . . . . . 2 P filter for positive film . . . . . 1 Film holder . . . . . 4 Transparent film . . . . . 1 Camera stand . . . . . 1 Close-up lens . . . . . 1 Shorting plug . . . . . 1 Dust cover . . . . . 1 Negative film 1

MICROFILM

FILM/VIDEO ADAPTOR

SONY®

ACC

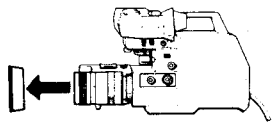
SECTION 1
OUTLINE

1-1. GENERAL

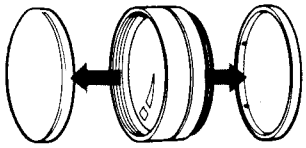
The HVT-3000CE/3000UB film/video adaptor transforms a negative colour film into a positive video signal using the negative-positive conversion circuits of the Sony HVC-4000P video camera. It is also possible to change a slide (reversal film) into a video signal.
With the film/video adaptor, you can easily view a negative or positive film image on a TV screen and also record it on a video tape.

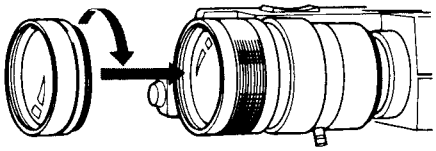
1-2. ASSEMBLY

❶ Remove the lens hood of the video camera.



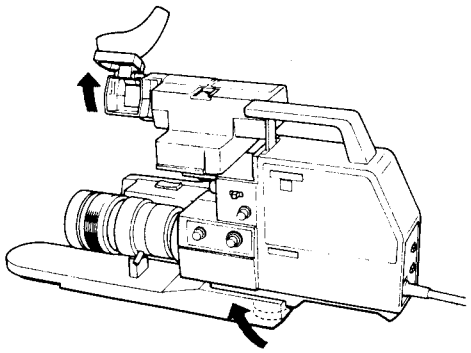
❷ Remove the lens caps of the HVT-3000CE/3000UB close-up lens and attach it to the video camera.



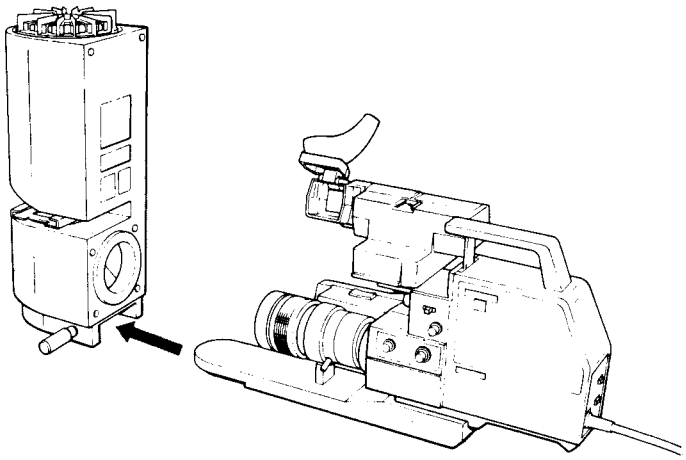


The supplied close-up lens is designed for the HVT-3000CE/3000UB film/video adaptor only. Do not use it for any other purpose.

❸ Attach the camera to the camera stand, by aligning the screw on the bottom and the tripod receptacle on the camera and turning the screw clockwise. Point the viewfinder as illustrated, and raise the eye-cup. The picture can then be easily monitored.

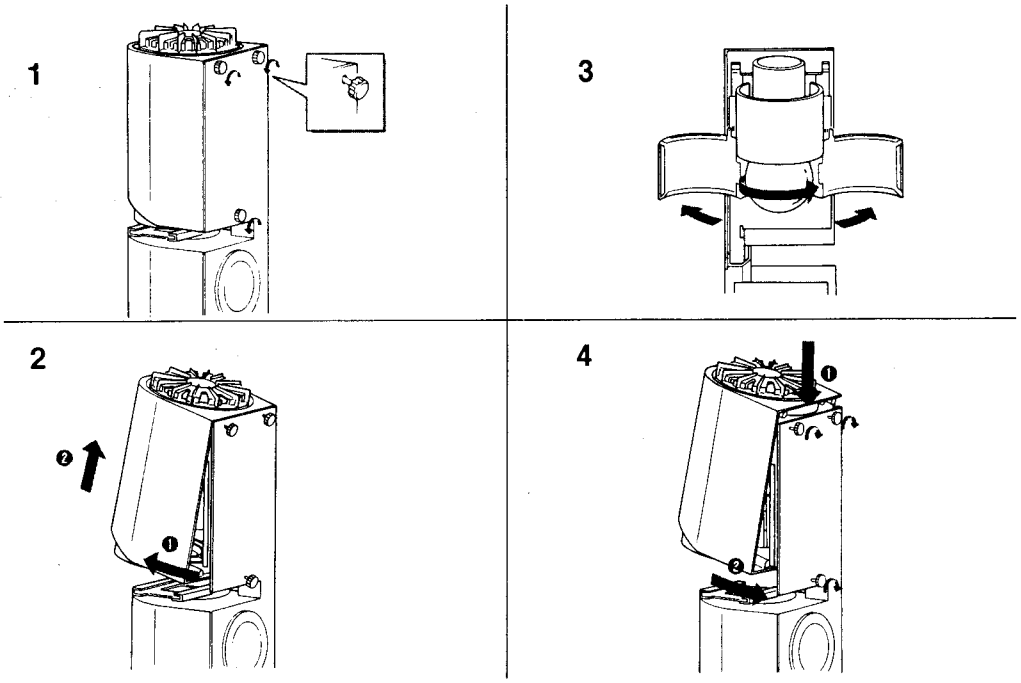


❹ Loosen the knob of the adaptor and insert the camera stand fully into the adaptor. Turn the knob clockwise to fasten the camera stand firmly.



❺ Insert a bulb.

A bulb is not supplied with the HVT-3000CE/3000UB. Please use a 60 W/220 – 240 V frosted (or pearl) bulb. For the HVT-3000UB (available in the United Kingdom), only the Swan-Bayonet type can be used.



Notes on a bulb to be used

Use only a 60 W/220 – 240 V frosted (or pearl) bulb.
In the United Kingdom, a bulb should be Swan-Bayonet type.

- Do not use a coloured bulb or a clear bulb, otherwise the colour of the picture will be affected.
- Do not use a bulb of more than 60 W. THIS WOULD BE HAZARDOUS.
- If a bulb of less than 60 W is used, the light intensity may be insufficient.

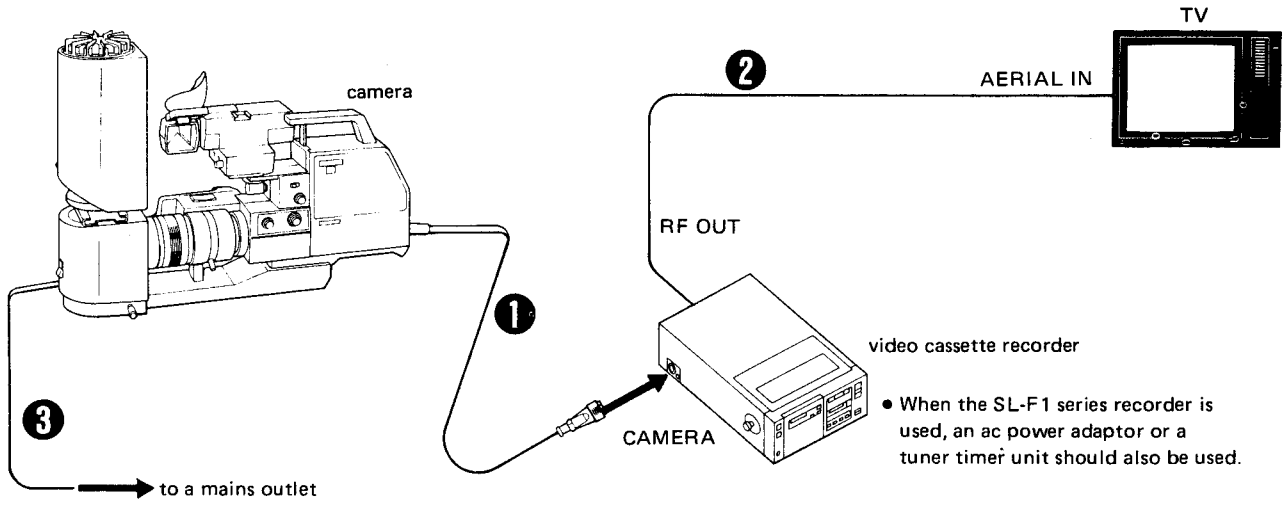
1 Loosen the three screws indicated in the figure. (These screws are not taken off.)
2 Remove the cover in two steps.
3 Open the lamp protector and attach the bulb by turning it clockwise.
4 Attach the cover with care so that the cover does not hit the bulb. Tighten the screws while holding the cover against the lamp housing.

When replacing a bulb that has burnt out, wait until the bulb has cooled off. When changing the bulb, be sure to turn the power of the adaptor off.

1-3. CONNECTIONS

System 1

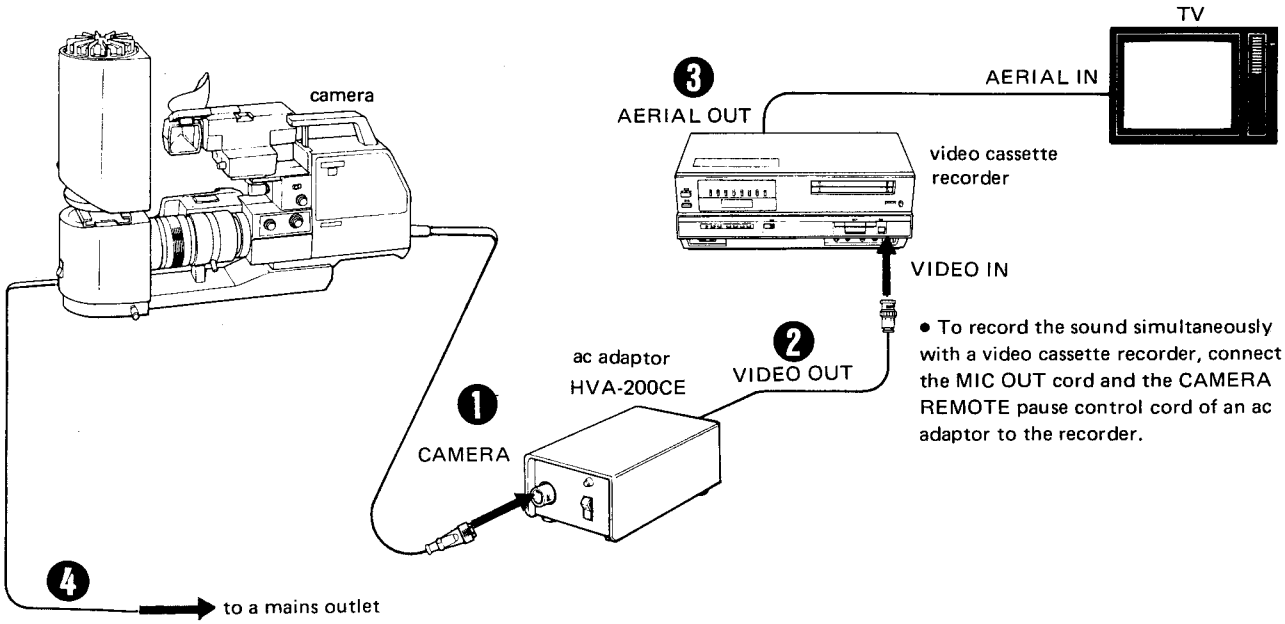
When a video cassette recorder equipped with a K-type (14-pin) camera connector, such as SL-F1, SL-3000, SL-C9, SL-C7, or SL-C5 series, is used.



- When the SL-F1 series recorder is used, an ac power adaptor or a tuner timer unit should also be used.

System 2

When a video cassette recorder not equipped with a camera connector, such as SL-C6 series, is used. An optional HVA-200CE ac adaptor is required.

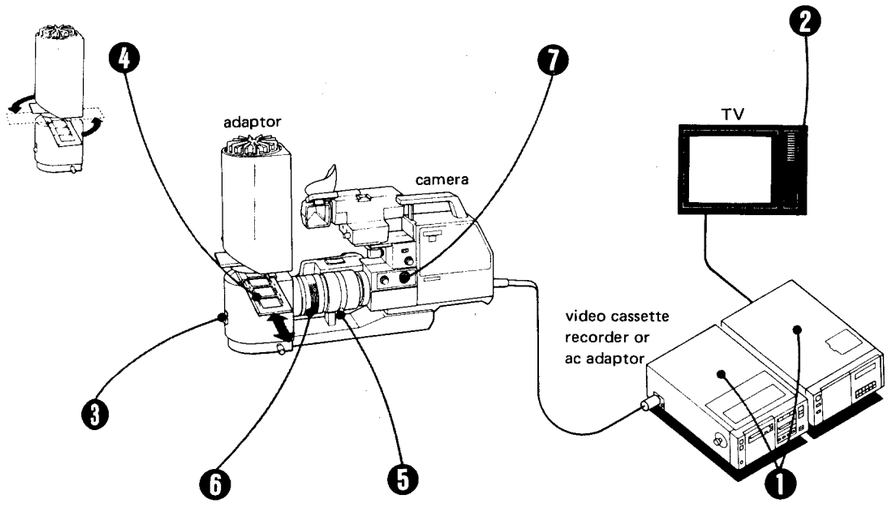


- To record the sound simultaneously with a video cassette recorder, connect the MIC OUT cord and the CAMERA REMOTE pause control cord of an ac adaptor to the recorder.

1-5. OPERATION

The colour of the picture will be affected by the setting of the COLOUR control on the TV receiver. Be sure to adjust the COLOUR control precisely using the broadcasting programmes.

- The HVT-3000CE/3000UB reproduces the colour of most of the films well but you will find that the colour of a certain types of film does not reproduce well.



❶ Turn the recorder power on.
❷ Turn the TV power on. (When a recorder is connected, select the channel preset for the video recorder.)
❸ Press the ON side to turn the adaptor power on.
❹ Adjust the position of the film holder by monitoring the picture on the TV screen. If the picture is filmed vertically, turn the holder 90°
❺ Turn the zoom lever so that the picture will be displayed on the entire screen.
❻ Turn the focus ring so that the picture appears clearly.
❼ Adjust the colour precisely with the FINE tuning controls so that a natural skin colour is obtained.

To view a monochrome film
The supplied filters need not be inserted.

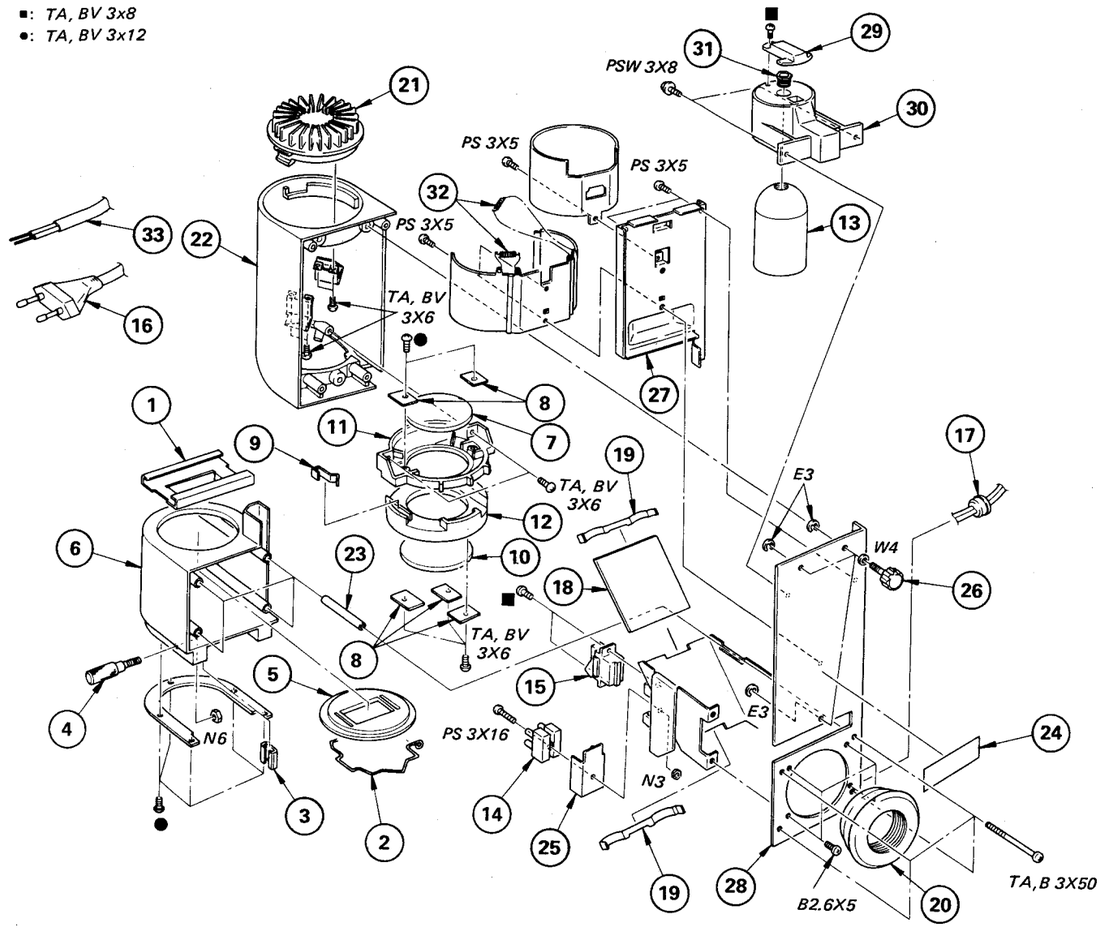
To use a special-effects filter
Attach a 58mm diameter special-effects filter between the lens of the video camera and the close-up lens. Then adjust the position of the camera stand so that the focus is adjusted with the zoom lever set to 70 and with the focus ring to ∞.

If the proper colour cannot be obtained with the FINE controls
- Check that the appropriate filter is used. To view a negative film, use N1 or N2 filter; to view a positive film, use the P filter.
- Normally view the film with the WHITE BALANCE control set to 2 .

SECTION 2
EXPLODED VIEWS

1) Film/Video Adaptor

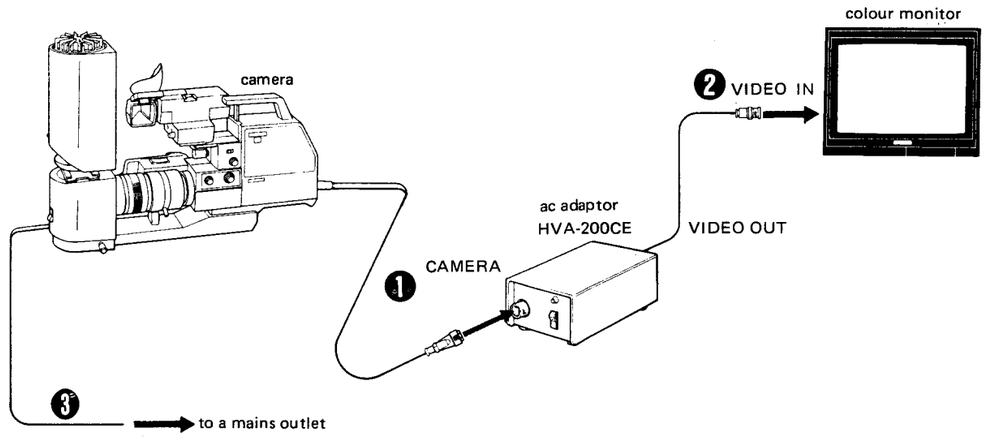
■: *TA, BV 3x8*
●: *TA, BV 3x12*



MECHA

No.	Part No.	Description	Remark
1	X-2297-204-0	CHANNEL ASSY, CARRIER	
2	2-297-207-00	SPRING	
3	●:2-297-211-00	PAD, CLAMP	
4	2-297-212-00	SCREW, RETAINER	
5	●:2-297-225-00	TABLE, CARRIER	
6	2-297-235-00	HOUSE, MIRROR	
7	1-547-081-00	FILTER, ABSORB	
8	●:2-297-203-00	RETAINER, FILTER	
9	2-297-205-00	SPRING	
10	2-297-216-00	ILLUMINATOR	
11	●:2-297-218-00	GUIDE (UPPER), FILTER	
12	●:2-297-219-00	GUIDE (LOWER), FILTER	
13	⚠.1-517-086-00	SOCKET, LAMP (AEP MODEL)	
	⚠.1-517-087-00	SOCKET, LAMP (UK MODEL)	
14	⚠●:1-536-440-00	TERMINAL BLOCK (AEP MODEL)	
15	⚠.1-553-784-00	SWITCH, SEESAW (AC POWER)	
16	⚠.1-556-410-00	CORD, POWER (AEP MODEL)	
17	⚠.2-231-019-00	CLAMPER, CORD	
18	2-297-201-00	MIRROR	
19	2-297-206-00	SPRING	
20	●:2-297-227-00	WINDOW, ORNAMENTAL	
21	2-297-228-02	CAP	
22	2-297-237-11	HOUSE, LAMP	
23	●:2-297-249-00	COLLAR, DISTANCE	
24	●:2-297-266-00	LABEL, MODEL NUMBER (AEP MODEL)	
	●:2-297-266-11	LABEL, MODEL NUMBER (UK MODEL)	
25	●:2-297-270-02	SHEET, INSULATING (AEP MODEL)	
26	2-297-274-00	SCREW, ORNAMENTAL	
27	2-297-276-00	PLATE, COVER	
28	●:2-297-280-00	PLATE, REAR	
29	●:2-297-282-00	COVER, HOLDER	
30	●:2-297-283-00	BRACKET, SOCKET	
31	2-297-284-00	SCREW, SOCKET	
32	3-555-210-00	SPRING, TENSION	
33	⚠.1-534-777-00	CORD, POWER (UK MODEL)	

System 3 When a colour monitor such as KX-20PS1 is connected.
An optional HVA-200CE ac adaptor is required.



- To connect a colour monitor through a video cassette recorder, refer to the instruction manual furnished with a video cassette recorder.

Note: On safety

Operate the unit only on 220–240V ac, 50/60Hz

IMPORTANT (For the customer in the United Kingdom)

The wires in the mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

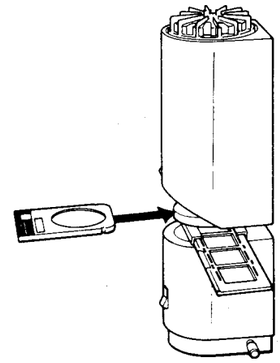
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

1-4. PREPARATIONS

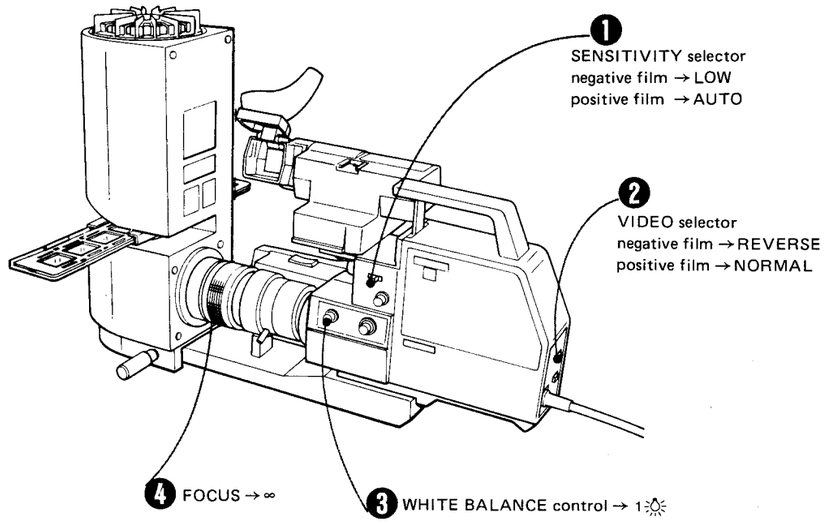
- **Filter Attachment**

Fully insert the filter as illustrated.
N1 filter for negative films except for ASA 80 films.
N2 filter for ASA 80 negative films.
P filter for positive films.
The supplied filters need not be inserted to view a monochrome film.

- When changing the filter while operating, remember that the glass of the filter is extremely hot.
- Do not touch the glass of the filter. If finger prints or dirt are present on the glass, be sure to clean it thoroughly. If the filter is used with finger prints or dirt present, the heat of operation will fix them, and they will remain as a permanent stain.

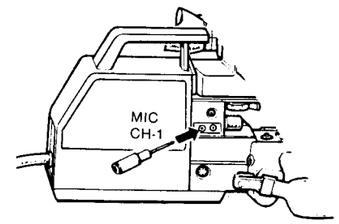


- **Preparing The Camera**



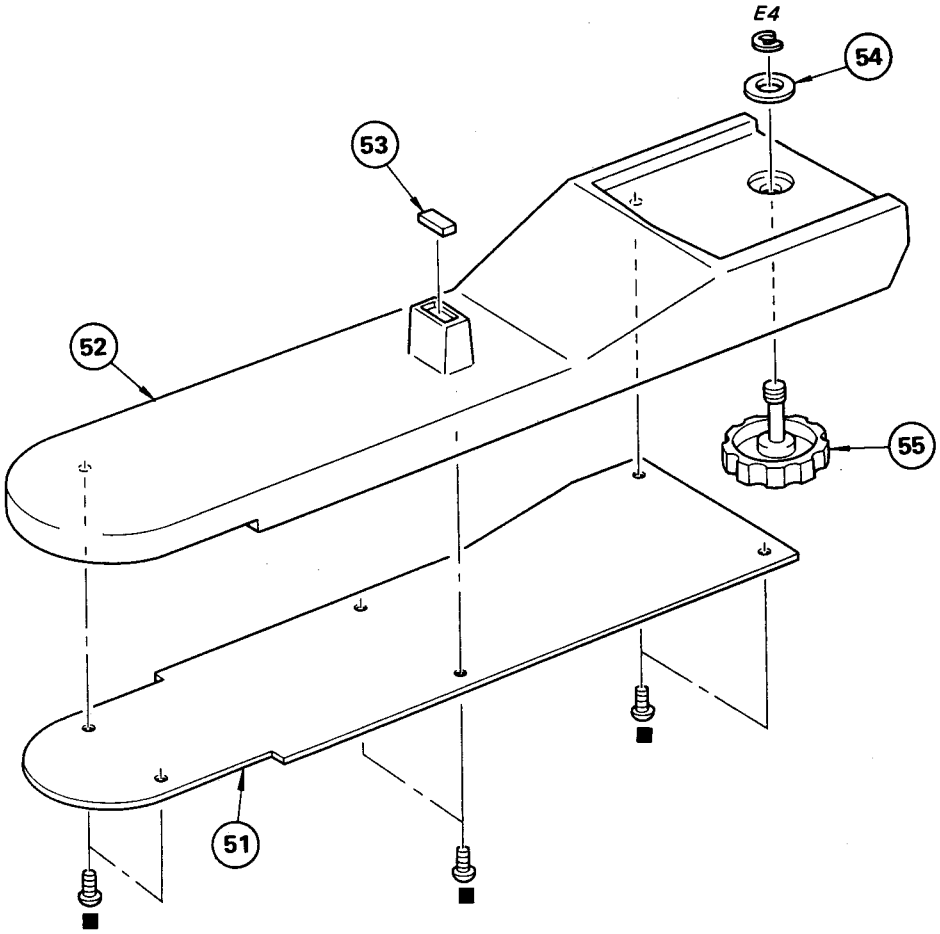
Note: Set the PEAKING switch to OFF to view a negative film.

- **To cut out the sound through the built-in microphone of the camera during recording**
  Connect the supplied shorting plug to the MIC CH-1 jack of the camera. The built-in microphone will be cut off.



2) Camera Stand

■ : *TA, BV3X8*



No.	Part No.	Description	Remark
51	⚷:2-297-232-00	PLATE, LOWER; CAMERA TABLE	
52	⚷:2-297-236-00	STAND, CAMERA	
53	⚷:2-297-244-00	CUSHION, LENS	
54	3-420-075-01	SPACER, THRUST	
55	3-664-804-00	KNOB, CLAMP	

SECTION 3
ELECTRICAL PARTS LIST

Ref.No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
⚠	1-517-086-00	SOCKET, LAMP (AEP MODEL)	
⚠	1-517-087-00	SOCKET, LAMP (UK MODEL)	
⚠	1-532-658-00	WIRE (WITH TEMPERATURE FUSE)	
⚠♦	1-536-440-00	TERMINAL BLOCK (AEP MODEL)	
	1-547-081-00	FILTER, ABSORB	
⚠	1-553-784-00	SWITCH, SEESAW (AC POWER)	
⚠	1-556-410-00	CORD, POWER (AEP MODEL)	

ACCESSORIES AND PACKING MATERIALS
****

Part No.	Description	Remark
A-7613-040-A	LENS ASSY	
X-2297-207-0	FILTER (P) ASSY	
X-2297-208-0	FILTER (N1) ASSY	
X-2297-209-0	FILTER (N2) ASSY	
1-506-309-00	PLUG, SHORT (SP-100)	
2-291-535-00	BAG, PROTECTION	
2-297-226-00	CARRIER, POSITIVE	
2-297-229-00	CARRIER(35 MILIMETER), NEGATIVE	
2-297-231-00	CARRIER (110), NEGATIVE	
2-297-239-00	CAP, FRONT	
2-297-240-00	CAP, REAR	
2-297-241-00	BOX, ORNAMENTAL	
2-297-242-00	SCREEN	
2-297-246-00	CUSHION (LOWER)	
2-297-247-00	CUSHION (UPPER)	
2-297-254-00	PACKING PAPER	
2-297-255-00	BAG, POLYETHYLENE	
2-297-261-00	COVER, DUST	
2-297-262-00	FILM	
2-297-285-00	CARRIER, 126	
2-297-286-00	INDIVIDUAL CARTON (AEP MODEL)	
2-297-288-00	INDIVIDUAL CARTON (UK MODEL)	
3-701-295-00	BAG, POLYETHYLENE	
3-701-631-00	BAG, POLYETHYLENE	
3-773-004-11	MANUAL, INSTRUCTION (AEP/UK MODEL)	
3-773-004-41	MANUAL, INSTRUCTION (AEP MODEL)	
3-826-164-00	BAG, POLYETHYLEN	

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Sony Corporation
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82F0295-1
Printed in Japan